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UNITED STATES DISTRICT COURT
CENTRAL DISTRICT OF CALIFORNIA, WESTERN DIVISION

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REALTIME ADAPTIVE
STREAMING LLC,
Plaintiff,
vs.
GOOGLE LLC, and YOUTUBE, LLC,
Defendants.

Case No. 2:18-CV-03629-GW-JC
**MEMORANDUM OF POINTS AND
AUTHORITIES IN SUPPORT OF
DEFENDANTS' MOTION TO
DISMISS PORTIONS OF
PLAINTIFF'S COMPLAINT**

Date: August 27, 2018
Time: 8:30 a.m.
Courtroom: 9D
Judge: Hon. George H. Wu

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1 **I. INTRODUCTION**

2 Four of Plaintiff Realtime Adaptive Streaming LLC’s (“Realtime”) five
 3 patent infringement claims (*i.e.*, Counts I–IV) should be dismissed.¹ Three of the
 4 claims assert patents directed to patent-ineligible subject matter and one asserts a
 5 surrendered patent. Specifically, the ’462 patent was surrendered before Realtime
 6 filed the Complaint, and therefore cannot be the subject of an infringement suit.

7 Three of the five patents-in-suit (the ’046, ’535, and ’477 patents; collectively,
 8 the “Fallon patents”) pertain to abstract ideas that are patent-ineligible under 35
 9 U.S.C. § 101. The Fallon patents relate to the field of data compression (also known
 10 as “data encoding”), which is the process of reducing the number of bits in a data
 11 file to reduce the resources needed to transmit and store it. Data compression
 12 methods vary in the amount of time they take to compress a file. The fastest
 13 methods tend to result in the least amount of compression relative to the original file
 14 size; conversely, the most computationally intensive and time-consuming methods
 15 often yield the greatest amount of compression, resulting in a smaller file size.
 16 Accordingly, the choice of a particular data compression method necessarily
 17 involves a trade-off between speed and size.

18 The purported “invention” of the Fallon patents is having a computer perform
 19 this trade-off. Specifically, the patents are directed to selecting a compression
 20 method based on some “parameter,” such as the transmission rate of a computer
 21 system, which is known as the system’s “throughput.”

22 The patents fail the two-step test for patentability articulated in *Alice Corp. v.*
CLS Bank Int'l, 134 S. Ct. 2347 (2014). With respect to the first step, the Fallon
 23 patents claim the abstract idea of selecting an algorithm to compress data based on
 24

25
 26 ¹ The five asserted patents are U.S. Patent Nos. 8,934,535 (“the ’535 patent”);
 27 9,769,477 (“the ’477 patent”); 7,386,046 (“the ’046 patent”); 8,634,462 (“the ’462
 28 patent”); and 9,578,298 (“the ’298 patent”). The asserted patents are attached as
 exhibits to the Complaint. (See ECF Nos. 1-1 through 1-5.)

1 some attribute, such as throughput. Importantly, compression algorithms existed long
2 before the Fallon patents, and the patents do not disclose any new compression method.
3 They simply instruct a user to choose from among well-known compression algorithms
4 based on some attribute of the system or the data to be processed. A representative
5 claim teaches “determining a parameter” of the data to be processed, “selecting” a
6 compression algorithm “based upon the determined parameter,” and “compressing” the
7 data “with the selected” algorithm. (’535 patent claim 15). In short, the claim teaches
8 selecting a tool based on some attribute of the task to be performed.

9 The Federal Circuit has held that compressing and decompressing (or
10 “encoding” and “decoding”) data is an abstract idea that is not patent-eligible. *See*
11 *RecogniCorp, LLC v. Nintendo Co.*, 855 F.3d 1322, 1326 (2017) (holding “encoding
12 and decoding” data is “an abstract concept long utilized to transmit information.”).
13 Moreover, the Court repeatedly has recognized that using rules or criteria to select
14 among conventional alternatives is also an abstract idea, which is not rendered
15 patent-eligible by being performed by a computer. *See, e.g., SmartGene, Inc. v.*
16 *Advanced Bio. Labs.*, SA, 555 Fed. App’x 950, 951–52 (Fed. Cir. 2014) (“method
17 for guiding *the selection* of a therapeutic treatment regimen” based on “patient
18 information” is an ineligible abstract idea) (emphasis added); *Intellectual Ventures I*
19 *LLC v. Capital One Bank (USA)*, 792 F.3d 1363, 1369 (Fed. Cir. 2015) (process for
20 *selecting* and presenting content based on criteria about the user—such as their
21 residence or viewing habits—is an abstract idea). The Fallon patents are directed to
22 the same abstract ideas as were claimed in these prior cases.

23 The Fallon patents also fail under the second step of *Alice* because they do not
24 contain an “inventive concept sufficient to transform the claimed abstract idea into a
25 patent-eligible [invention].” *Alice*, 134 S. Ct. at 2357 (internal quotation marks
26 omitted). The patent claims recite only conventional computer elements, such as an
27 unspecified “compression algorithm,” “the Internet,” “a storage device,” and “data
28 blocks.” The patent specification emphasizes the conventional nature of these

1 computer elements, stating that the purported invention is implemented with *existing*
2 compression algorithms using *existing* hardware and software. These “well-
3 understood, routine, conventional” elements are insufficient to transform the
4 abstract idea into a patent-eligible invention. *Mayo Collaborative Services v.*
5 *Prometheus Labs., Inc.*, 566 U.S. 66, 79–80 (2012).

6 In addition, the Supreme Court has held that “the prohibition against
7 patenting abstract ideas cannot be circumvented by attempting to limit the use of
8 [the idea] to a particular technological environment.” *Alice*, 134 S. Ct. at 2358.
9 Although the Fallon patents relate to computer environments and appear to be
10 limited to the field of digital data compression, they do not claim any algorithm for
11 data compression, or even any algorithm for selecting among different data
12 compression methods. The claims encompass only the concept of compression
13 optimization at its most abstract level—using some criterion to choose from among
14 known algorithms. The patents are thus pitched to the same level of abstraction as
15 numerous other patents held to be patent-ineligible that claimed computerized
16 selection among known alternatives based on specified rules or criteria. That the
17 claimed selection process “could be performed more efficiently via a computer”
18 does not transform it into a patentable concept. *Bancorp Services, LLC v. Sun Life*
19 *Assur. Co.*, 687 F.3d 1266, 1278 (Fed. Cir. 2012).

20 **II. BACKGROUND**

21 The Fallon patents explain that data compression, also referred to as data
22 encoding, refers generally to the concept of reducing the size of a file by substituting
23 one form of computer code with a more condensed form of computer code,
24 rendering it easier to transmit and store. (See ’535 patent at 2:44–49.) The most
25 popular computer-based compression algorithms (*e.g.*, zip, JPEG, MPEG, MP3,
26 AAC) date back several decades. But the concept of compression long predates
27 modern computing. Humans have performed compression since the advent of the
28

1 printed word, using abbreviations, single words, and hieroglyphs to communicate
2 complex concepts in a consolidated form.

3 The Federal Circuit recently recognized that “encoding and decoding” data is
4 “an abstract concept long utilized to transmit information.” *RecogniCorp*, 855 F.3d
5 at 1326. The Federal Circuit provided several examples of abstract (and patent
6 ineligible) encoding and decoding systems, such as “Morse code, ordering food at a
7 fast food restaurant via a numbering system, and Paul Revere’s ‘one if by land, two
8 if by sea’ signaling system.” *Id.* As described in greater detail below, the Fallon
9 patents relate to data compression, and more specifically to choosing a data
10 compression algorithm based on a parameter.

11 The three Fallon patents are all closely related to each other. They are in the
12 same patent family, have the same inventors, share the same specification, and
13 contain similar claim language. Although the patents are directed to the concept of
14 data compression, they acknowledge that compression is a well-known concept that
15 was conventional at the time of the purported invention. (*See, e.g.*, ’535 patent at
16 1:31–32 (“There are a variety of data compression algorithms that are currently
17 available.”); *id.* at 2:44–46 (“Data compression is widely used to reduce the amount
18 of data required to process, transmit, or store a given quantity of information.”).)

19 Importantly, the Fallon patents do not purport to invent a novel method for
20 compressing data, nor do the claims specify any particular algorithm for
21 compressing data. In fact, the patents contain a list that extends more than 20 pages
22 of prior art describing various preexisting compression methods. (*See* ’535 patent at
23 pp. 6 to 29.) The patents describe two general types of data compression methods:
24 “symmetrical” methods, for which the computational time needed to compress the
25 data is equal to that needed to decompress the data; and “asymmetrical” methods, in
26 which compression and decompression occur at different rates. (*Id.* at 9:60–10:14.)
27 The specification specifically identifies various examples of both types that
28 preexisted the claimed invention, including “Lempel-Ziv” and “Huffman”

1 compression methods. (*Id.* at 10:1–10.) The patents use the terms “compress” and
2 “encode” (and “decompress” and “decode”) interchangeably. (See ’535 patent at
3 2:46–49, 4:33–34, 4:45–50.)

4 The Fallon patents also recognize that it was conventional at the time of the
5 claimed invention to select a compression method based on specified parameters.
6 (See ’535 patent at 1:32–33 (“Many compression algorithms define one or more
7 parameters that can be varied, either dynamically or a-priori, to change the
8 performance characteristics of the algorithm.”).) Indeed, the patents acknowledge
9 that it is conventional to consider parameters such as “speed” and “efficiency” in
10 deciding the compression method to be used. (See ’535 patent at 1:50–53 (“[T]he
11 desired balance between speed and efficiency is typically a significant factor that is
12 considered in determining which algorithm to employ for a given set of data.”).)

13 Each of the Fallon patents is directed to a method of using a computer to
14 select a compression algorithm (sometimes referred to as a “compressor,” an
15 “encoder,” or a “compression routine”) based on some characteristic of the data to
16 be compressed, or some attribute of the system across which the data is to be
17 transmitted. The ’535 patent, for example, is directed to a method of selecting a
18 compression algorithm based on an unspecified “parameter or attribute” of the “data
19 block” to be compressed. Claim 15—the only claim of the ’535 patent that
20 Realtime specifically identifies in the Complaint (ECF No. 1, ¶ 34.)—states:

21 15. A method, comprising:

22 determining a parameter of at least a portion of a data
23 block;

24 selecting one or more asymmetric compressors from
25 among a plurality of compressors based upon the
26 determined parameter or attribute;

27 compressing the at least the portion of the data block with
28 the selected one or more asymmetric compressors to
 provide one or more compressed data blocks; and

1 storing at least a portion of the one or more compressed
2 data blocks.

3 The claim does not identify a specific compression algorithm to be used, referring
4 simply to a generic “asymmetric compressor.” It also fails to identify a specific
5 “parameter or attribute” on which the selection is to be based, or even how the
6 “parameter or attribute” is employed in the selection process. Claim 15 is
7 representative of the other claims, which add only minor variations to the same basic
8 concept. *See Content Extraction & Transmission LLC v. Wells Fargo Bank Nat'l
9 Ass'n*, 776 F.3d 1343, 1359 (Fed. Cir. 2014) (finding claim representative of all
10 patent claims where claims are substantially similar and directed to same abstract
11 idea). Realtime acknowledges this by alleging that Defendants infringe additional
12 claims of the '535 patent “for similar reasons,” without providing any additional
13 factual allegations. (ECF No. 1 at ¶ 47.)

14 The '477 and '535 patents both claim priority through a chain of continuation
15 applications to the application that issued as the '046 patent, and therefore are based
16 on the same specification. The claims of the '477 patent are directed to selecting a
17 compression algorithm (here referred to as an “encoder”) based upon “one or more
18 data parameters.” Claim 1, the only claim of the '477 patent specifically identified
19 in the Complaint, states:

20 1. A system, comprising:

21 a plurality of different asymmetric data compression
22 encoders,

23 wherein each [encoder] is configured to utilize one or
24 more data compression algorithms, and

25 wherein a first [encoder] is configured to compress data
26 blocks containing video or image data at a higher data
27 compression rate than a second [encoder]; and

28 one or more processors configured to:

1 determine one or more data parameters, at least one
2 of the determined one or more data parameters
3 relating to a throughput of a communications
4 channel measured in bits per second; and

5 select one or more asymmetric data compression
6 encoders from among the plurality of different
7 asymmetric data compression encoders based upon,
8 at least in part, the determined one or more data
9 parameters.

10 The '477 patent claims are equally as vague and abstract as the '535 patent claims.
11 As with the '535 patent, the claim teaches selecting from among a group of
12 compression algorithms based on some "data parameter," which the claim indicates
13 may be the "throughput" of a communications channel. Like the '535 patent, the
14 '477 patent does not teach a new compression algorithm or identify a specific
15 compression algorithm to be employed; nor does it identify any algorithm for
16 selecting among different compression methods. Claim 1 is representative of the
17 other claims of the '477 patent, which add only minor variations to the same basic
18 concept. As with the '535 patent, Realtime acknowledges this by employing the
19 same generic allegation that Defendants infringe additional claims of the '477 patent
20 "for similar reasons," without any additional factual detail. (ECF No. 1, ¶ 67.)

21 The '046 patent does specify that the selection of the compression algorithm
22 is based upon the throughput of the system. However, the claims remain directed to
23 the abstract idea of selecting a compression method best suited to the transmission
24 rate of the data. Claim 40, the only claim of the '046 patent specifically identified in
25 the Complaint, states:

26 40. A system comprising:

27 a data compression system for compressing and
28 decompressing data input;

29 a plurality of compression routines selectively utilized by
30 the data compression system, wherein a first one of the

1 plurality of compression routines includes a first
2 compression algorithm and a second one of the plurality of
3 compression routines includes a second compression
4 algorithm; and

5 a controller for tracking throughput and generating a
6 control signal to select a compression routine based on the
7 throughput, wherein said tracking throughput comprises
8 tracking a number of pending access requests to a storage
9 device; and

10 wherein when the controller determines that the
11 throughput falls below a predetermined throughput
12 threshold, the controller commands the data compression
13 engine to use one of the plurality of compression routines
14 to provide a faster rate of compression so as to increase the
15 throughput.

16 Like the other Fallon patents, the '046 patent does not identify a specific
17 compression algorithm to be used, referring only to a generic "compression
18 routine." It also does not specify how a particular compression algorithm is to be
19 selected based on the determined "throughput." Claim 40 is representative of the
20 other claims of the '046 patent, which add only minor variations to the same basic
21 concept. Again, as with the other Fallon patents, Realtime acknowledges the
22 similarity of the other claims by alleging that Defendants infringe additional claims
23 of the '046 patent "for similar reasons," without making any additional factual
24 allegations. (ECF No. 1, ¶ 28.)

25 Although the wording of the Fallon patent claims varies, close review reveals
26 that each claim is directed to the same concept of selecting a generic compression
27 algorithm on the basis of a known parameter. None of the claims specifies a
28 specific algorithm to compress data; none of them specifies a particular relationship
 between a specific parameter and the process for selecting a compression algorithm;
 and none of them describes how the selection process is to occur. The patents are

1 functional—describing a nonspecific function to be performed—and do not claim a
 2 specific technological solution.

3 **III. LEGAL STANDARD**

4 Section 101 of the Patent Act defines the type of subject matter that is patent-
 5 eligible. 35 U.S.C. § 101. Whether a patent claims patent-eligible subject matter is
 6 a “threshold inquiry,” *In re Bilski*, 545 F.3d 943, 950–51 (Fed. Cir. 2008) (*en banc*),
 7 *aff’d*, 561 U.S. 593 (2010), that may be, and regularly is, decided at the pleadings
 8 stage, without claim construction, *see, e.g.*, *Ultramercial, Inc. v. Hulu, LLC*, 772
 9 F.3d 709, 717 (Fed. Cir. 2014); *Bancorp Servs., LLC v. Sun Life Assurance Co.*, 687
 10 F.3d 1266, 1273–74 (Fed. Cir. 2012); *Automated Tracking Solutions, LLC v. Coca-*
 11 *Cola Co.*, 723 Fed. App’x 989, 995 (Fed. Cir. 2018). Other courts in this District
 12 have granted motions to dismiss under Rule 12(b)(6) for lack of patent eligibility.
 13 *See, e.g.*, *Talent Broker Tech. LLC v. Musical.ly, Inc.*, 2018 WL 3019641, at *6–10
 14 (C.D. Cal. May 22, 2018) (granting Rule 12(b)(6) motion to dismiss due to lack of
 15 patent eligibility); *Activision Publ’g, Inc. v. xTV Networks, Ltd.*, 2016 WL 6822751,
 16 at *4–5 (C.D. Cal. July 25, 2016) (same); *Coffelt v. NVIDIA Corp.*, 2016 WL
 17 7507763, at *6 (C.D. Cal. June 21, 2016) (same).

18 The Supreme Court has long interpreted § 101 to hold that “laws of nature,
 19 natural phenomena, and abstract ideas are not patentable.” *Alice*, 134 S. Ct. at 2354.
 20 These basic principles are excluded from patent eligibility because they are the very
 21 “building blocks of human ingenuity,” *id.* at 2359, and should be “free to all men
 22 and reserved exclusively to none,” *Mayo*, 566 U.S. at 71.

23 The Supreme Court’s *Alice* test sets forth a two-part standard for assessing
 24 subject-matter eligibility for computer-implemented inventions. In the first step, the
 25 court must determine whether the claims are “directed to” patent-ineligible subject
 26 matter, such as an abstract idea. *Alice*, 134 S. Ct. at 2355. To determine whether
 27 the claim is “directed to” an abstract idea, the court must determine the “focus of the
 28 claimed advance over the prior art”—that is, what is the “character [of the claim] as

1 a whole.” *Intellectual Ventures I LLC v. Erie Indem. Co.*, 850 F.3d 1315, 1325
 2 (Fed. Cir. 2017) (internal quotation marks omitted). While no conclusive rule
 3 determines what is abstract, both the Federal Circuit “and the Supreme Court have
 4 found it sufficient to compare claims at issue to those already found to be directed to
 5 an abstract idea in previous cases.” *LendingTree, LLC v. Zillow, Inc.*, 656 Fed.
 6 App’x 991, 995 (Fed. Cir. 2016) (citation omitted). In a related context, the Federal
 7 Circuit recently confirmed that, where the “character of the claim” pertains to
 8 “encoding and decoding” data, the claim is directed to an abstract idea that fails
 9 *Alice* step one. *See RecogniCorp*, 855 F.3d at 1326. The Federal Circuit also has
 10 recognized that using well-known criteria to select from known alternatives is an
 11 abstract idea that does not become patent eligible merely by being implemented in a
 12 computer. *See, e.g., SmartGene*, 555 Fed. App’x at 951–52; *Intellectual Ventures*,
 13 792 F.3d at 1369 (Fed. Cir. 2015).

14 Under *Alice* step two, the court must determine whether the patent claims
 15 include an “inventive concept” that is “sufficient to ensure that the patent in practice
 16 amounts to significantly more than a patent upon the [abstract idea] itself.” *Alice*,
 17 134 S. Ct. at 2355 (internal quotation marks omitted). In order to survive step two,
 18 the inventive concept cannot simply limit the alleged invention to “a particular
 19 technological environment.” *Bilski v. Kappos*, 561 U.S. 593, 610–11 (2010)
 20 (internal quotation marks omitted). The inventive concept must be truly inventive;
 21 it is not sufficient to include “well-understood, routine, conventional” features.
 22 *Mayo*, 566 U.S. at 79–80. Merely reciting conventional computer elements “cannot
 23 transform a patent-ineligible abstract idea into a patent-eligible invention.” *Alice*,
 24 134 S. Ct. at 2358; *see also Intellectual Ventures I LLC v. Capital One Fin. Corp.*,
 25 850 F.3d 1332, 1341 (Fed. Cir. 2017) (finding no inventive concept where claims
 26 recited “both a generic computer element—a processor—and a series of generic
 27 computer ‘components’”).

1 **IV. ARGUMENT**

2 **A. The Fallon Patents' Claims Are Patent-Ineligible**

3 The Fallon patents are ineligible because they claim the abstract idea of
 4 *selecting* a compression algorithm based on a characteristic of the system or the data
 5 to be compressed. As described below, this abstract idea is untethered to any
 6 technological solution. The patent claims do not specify a specific algorithm for
 7 compressing data; they do not identify a specific process or relationship by which a
 8 compression method is to be selected; and they do not identify any novel computer
 9 elements, such as hardware or software, to accomplish the claimed compression.
 10 The patent claims are purely functional and merely describe a trade-off between
 11 speed and file size. The fact that the patents employ conventional computer
 12 elements to perform this task in a particular technological field does not transform
 13 the abstract idea into a patent-eligible invention.

14 **1. *Alice Step 1: The Fallon Patents Are Directed to the***
 15 ***Abstract Idea of Selecting a Compression Algorithm.***

16 The Fallon patents are directed to the abstract idea of selecting a compression
 17 algorithm based on a parameter of the system or the data to be compressed. Each of
 18 the patent claims performs a series of three generic steps. First, the patents look at a
 19 “parameter,” *i.e.*, a characteristic of the data to be compressed or an attribute of the
 20 system, such as throughput.² Second, upon looking at the parameter, the Fallon
 21 patents choose an unspecified compression algorithm.³ Finally, the Fallon patents
 22
 23

24 ² See, e.g., '535 patent at Claim 15 (“determining a parameter of . . . a data block”);
 25 '477 patent at Claim 1 (“determine one or more data parameters”); '046 patent at
 26 Claim 40 (“tracking throughput . . . [of] a storage device”).

27 ³ See, e.g., '535 patent at Claim 15 (“selecting one or more asymmetric compressors
 28 . . . based upon the determined parameter”); '477 patent Claim 1 (“select one or
 29 more asymmetric data compression encoders . . . based upon, at least in part, the
 30 (footnote continued)

1 compress the data with the selected algorithm.⁴ The claimed method simply claims
 2 selecting a generic tool based on an attribute of the task to be accomplished.

3 In fact, Federal Circuit precedent makes clear that data compression, in and of
 4 itself, is an abstract idea that is not eligible for patent protection. In *RecogniCorp*,
 5 the Federal Circuit affirmed an invalidity finding under § 101 where the patent
 6 claimed a method “whereby a user starts with data, codes that data using ‘at least
 7 one multiplication operation,’ and ends with a new form of data.” *RecogniCorp*,
 8 855 F.3d at 1327. The Federal Circuit held that the patent merely recited the
 9 abstract concept of “encoding and decoding” data:

10 This method reflects standard encoding and decoding, an
 11 abstract concept long utilized to transmit information.
 12 [citation omitted]. Morse code, ordering food at a fast
 13 food restaurant via a numbering system, and Paul Revere’s
 14 “one if by land, two if by sea” signaling system all
 15 exemplify coding at one end and decoding at the other
 16 end.

17 Id. at 1326. Thus, the Court held, a method of encoding “that started with data,
 18 added an algorithm, and ended with a new form of data was directed to an abstract
 19 idea.” *Id.* at 1327; *see also Digitech Image Techs., LLC v. Elecs. For Imaging, Inc.*,
 20 758 F.3d 1344, 1351 (Fed. Cir. 2014) (“[A] process that employs mathematical
 21 algorithms to manipulate existing information to generate additional information is
 22 not patent eligible.”).

23
 24 determined one or more data parameters”); ’046 patent at Claim 40 (“select a
 25 compression routine based on the throughput”).

26 ⁴ See, e.g., ’535 patent at Claim 15 (“compressing the at least the portion of the data
 27 block with the selected one or more compressors”); ’046 patent at Claim 40 (“the
 28 controller commands the data compression engine to use one of the plurality of
 compression routines”).

1 The Federal Circuit also has recognized that methods of programming a
2 computer to select various alternatives based on parameters are directed to an
3 abstract idea. *See, e.g., SmartGene*, 555 Fed. App'x at 954–55 (Fed. Cir. 2014)
4 (computer program for generating medical advice based on “expert rules” applied to
5 a “ranked listing of available therapeutic treatment regimens” constituted abstract
6 idea); *OIP Techs., Inc. v. Amazon.com, Inc.*, 788 F.3d 1359, 1361 (Fed. Cir. 2015)
7 (“us[ing] a general-purpose computer to implement the abstract idea of ‘price
8 optimization’” constitutes abstract idea); *Accenture Global Services, GmbH v. Guidewire Software, Inc.*, 728 F.3d 1336, 1344 (Fed. Cir. 2013) (“[G]enerating tasks [based on] rules . . . to be completed upon the occurrence of an event” is an abstract
10 idea); *Intellectual Ventures, LLC v. Symantec Corp.*, 838 F.3d 1307, 1317 (Fed. Cir.
11 2016) (computerized system for processing e-mail messages in business network
12 “by applying business rules to the messages” is an abstract idea); *Intellectual Ventures I*, 792 F.3d at 1369–70 (selecting and presenting content based on user
13 criteria—such as residence or viewing habits—is an abstract idea).
14

15 At their core, the Fallon patents claim these same abstract ideas. They merely
16 claim a process for selecting among unspecified, conventional compression
17 algorithms based upon some unspecified, parameter-based rule. As in *RecogniCorp*,
18 the claimed methods merely “start[] with data, add[] an algorithm, and end with a
19 new form of data.” 855 F.3d at 1327.
20

21 Nowhere do the Fallon patents claim a *novel* data compression method. Cf.
22 *DDR Holdings, LLC v. Hotels.com, L.P.*, 773 F.3d 1245, 1259 (Fed. Cir. 2014)
23 (suggesting, in *dicta*, that such a method might be patent-eligible). Indeed, the
24 Fallon patents fail to claim any specific compression algorithm at all. They simply
25 instruct the reader to employ generic “compression algorithms that are currently
26 available,” (‘535 patent at 1:31–32), which the patents acknowledge were “widely
27 used” before the claimed inventions, (*id.* at 2:44). The Fallon patents’ generic
28 claims are indistinguishable from those that repeatedly have been held ineligible.

1 Many compression tools exist and each strikes a different balance among
2 executing at high speeds, compressing data to the theoretical limits, and maintaining
3 the quality of the data (*i.e.*, lossy vs. lossless compression). (*See, e.g.*, '535 patent at
4 1:53–55, 2:46–49.) It is well known for human users to select from among different
5 compression methods based on certain parameters, such as the capabilities of the
6 communication channel used for transporting the data (*e.g.*, a user may select to
7 compress a photograph to a greater extent when sending it by email than when
8 sending it by FTP). The Fallon patents' inventors neither first recognized these
9 necessary trade-offs, nor invented any particular technological means to effectuate
10 them. Instead, the Fallon patents purport to monopolize all automated methods of
11 selecting an appropriate compression method from among several known
12 algorithms. But that is simply a claim to an abstract idea, rather than to a
13 technological solution. *See McRO, Inc. v. Bandai Namco Games Am., Inc.*, 837
14 F.3d 1299, 1314 (Fed. Cir. 2016) (patent claims ineligible where they “are not
15 directed to a specific invention and instead improperly monopolize ‘the basic tools
16 of scientific and technological work’ [or] … abstractly cover results where ‘it
17 matters not by what process or machinery the result is accomplished.’”’) (citations
18 omitted). Moreover, that a computer can track throughput or other parameters more
19 quickly than a person can does not render the inventive concept any less abstract.
20 *OIP Tech.*, 788 F.3d at 1363 (“[R]elying on a computer to perform routine tasks
21 more quickly or more accurately is insufficient to render a claim patent eligible.”).

22 In sum, the Fallon patents' selection of a compression algorithm based on a
23 characteristic of the data to be compressed is an abstract idea employed throughout
24 history; it had been conducted long before the claimed invention, and the concept is
25 reflected in the different compression algorithms used for CDs and portable media
26 players (for audio) and DVDs, Blu-Ray and digital cameras (for video). Because
27 the Fallon patents fall into the category of “analyzing information by steps people
28 go through in their minds, or by mathematic algorithms, without more,” there is no

1 doubt that the patent claims are abstract in nature. *Elec. Power Grp., LLC v. Alstom*
2 S.A., 830 F.3d 1350, 1354 (Fed. Cir. 2016). The asserted claims are abstract
3 because, rather than “focus[ing] on a specific means or method,” they are “directed
4 to a result or effect that itself is the abstract idea and merely invoke[] generic
5 processes or machinery,” *i.e.*, choosing a compression algorithm based on a
6 characteristic, rather than a specific method or tool for compressing data. *Two-Way*
7 *Media Ltd. v. Comcast Cable Comm'n, LLC*, 874 F.3d 1329, 1336 (Fed. Cir. 2017).

8 Of note, this case is easily distinguishable from *Enfish, LLC v. Microsoft*
9 *Corp.* (and its progeny), where the Federal Circuit found that the claimed invention
10 resulted in a “specific improvement to the way computers operate.” 822 F.3d
11 1327, 1336 (Fed. Cir. 2016). In *Enfish*, the asserted patent claims described a
12 detailed “four-step algorithm” that yielded a novel “self-referential table for a
13 computer database.” *Id.* at 1337. In fact, the claims had a means-plus-function
14 element whose corresponding structure was an algorithm that specified *how* the
15 table was to be configured, including details like assigning an object identification
16 number and using it as a pointer. *Id.* at 1336. Details like those present in *Enfish*
17 are wholly missing in the claims of the Fallon patents, which fail to disclose any
18 specific algorithm for detecting relevant parameters of data or any specific
19 algorithm for compressing data. Rather, the claims recite the generic method of
20 selecting the best compression algorithm based on unspecified parameters. The
21 “essentially result-focused, functional character” of the claims is a “frequent
22 feature of claims held ineligible under § 101.” *Elec. Power Grp.*, 830 F.3d at
23 1356. This generic selection method as claimed in the Fallon patents thus does not
24 yield any “*specific* improvement to the way computers operate.” *Enfish*, 822 F.3d
25 at 1336 (emphasis added).

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1 **2. Alice Step 2: The Fallon Patents Do Not Contain an
2 Inventive Concept to Transform Their Claims into Patent-
2 Eligible Inventions.**

4 The Fallon patents do not contain any “inventive concept” that is “sufficient
5 to ensure that the patent in practice amounts to significantly more than a patent upon
6 the [abstract idea] itself.” *Alice*, 134 S. Ct. at 2355 (internal quotation marks
7 omitted). The patent claims are devoid of any hardware requirements that tie them
8 to a particular device or implementation. To the extent the claims recite specific
9 computer elements, they are only “well-understood, routine, conventional” elements
10 that do not accomplish the necessary transformation. *Mayo*, 566 U.S. at 79. The
11 additional claim limitations are, at best, field-of-use limitations that do not provide
12 the necessary inventive concept. *See Intellectual Ventures*, 850 F.3d at 1340.

13 For example, the limitations of exemplary Claim 15 of the ’535 patent do
14 nothing more than implement the abstract idea of selecting a compression algorithm,
15 without any additional inventive concept. The ’535 patent does not claim any novel
16 use of computer hardware or software, nor does it claim a novel algorithm. It claims
17 only the use of an *existing* compression algorithm selected on the basis of an
18 *existing*, unspecified parameter. This is not inventive; it simply describes the
19 abstract concept of optimizing the choice of a compression method based on some
20 unspecified parameter. While the claim ends with the generic step of “storing [the]
21 compressed data blocks,” it does not claim any novel way of storing data or even
22 include limitations regarding particular storage hardware. This limitation recites
23 “merely what computers do”—store data—and thus fails to move the needle on
24 patentability. *Ultramercial*, 772 F.3d at 717; *see also Content Extraction*, 776 F.3d
25 at 1347 (holding that claims directed to “1) collecting data, 2) recognizing certain
26 data within the collected data set, and 3) *storing* that recognized data in memory”
27 are patent-ineligible) (emphasis added). Moreover, the Fallon patents make clear

1 that the recited compression algorithms and computer elements were conventional at
 2 the time of the purported invention. (*See, e.g.*, '535 patent at 1:31–32, 2:44–46).⁵

3 Nor do any of the other claims of the '535 patent yield a patentable, inventive
 4 concept.⁶ The other claims provide only inconsequential variations on Claim 15.
 5 *See Content Extraction*, 776 F.3d at 1359 (finding claim representative of all patent
 6 claims where claims are substantially similar and directed to same abstract idea).
 7 For example, some of the claims require use of an “asymmetrical” compression
 8 algorithm. (*E.g.*, '535 patent claims 1–14.) But the patent specification makes clear
 9 that “asymmetrical” compression algorithms long preceded the claimed invention
 10 and even identifies several conventional asymmetric algorithms. (*See* '535 patent at
 11 1:35–38, 9:60–10:4.) The patent does not claim any improvements to these

12 ⁵ Although some patent ineligibility determinations may require factual findings as
 13 to whether claim elements are well-understood, routine, or conventional, *see*
 14 *Berkheimer v. HP Inc.*, 881 F.3d 1360 (Fed. Cir. 2018), the Federal Circuit has
 15 recognized that dismissals on the pleadings are proper when, as here, the patent
 16 specification makes clear that the recited claim elements were well understood,
 17 routine, or conventional, *see Automated Tracking Solutions, LLC v. Coca-Cola Co.*,
 18 723 Fed. App'x 989, 995 (Fed. Cir. 2018) (finding no “disputed fact question”
 existed because the patent specification “indicates that the recited components . . .
 were conventional.”).

19 ⁶ Realtime attempts to allege infringement of “other claims” of the '535, '477, and
 20 '046 patents, but fails to identify which other claims are infringed, what products
 21 infringe those claims, and how those products infringe those other claims.
 22 Realtime’s generic allegations as to the “other” patent claims not detailed in the
 Complaint do not contain “enough facts to state a claim to relief that is plausible on
 its face,” and thus those claims have yet to be asserted. *Bell Atlantic Corp. v.*
Twombly, 550 U.S. 554, 570 (2007); *see also Am. Well Corp. v. Teladoc, Inc.*, 191
 F. Supp. 3d 135, 140 (D. Mass. 2016) (holding defendant does not have burden to
 challenge eligibility of claims for which plaintiff has not alleged infringement).
 23 Realtime may nonetheless argue that these “other claims” are sufficiently distinct to
 render them patentable, but Realtime cannot remedy one infirmity in its Complaint
 24 by introducing another (that is, it cannot point to patent-eligible claims it has yet to
 assert). Notwithstanding (and without waiver), the other claims of the Fallon
 25 26 27 28 patents are addressed in the present motion.

1 conventional algorithms. Certain claims of the '535 patent are limited to “audio or
 2 video data.” ('535 patent claims 1, 22, 27.) But that limitation simply “limits the
 3 invention to a technological environment,” which does “not make an abstract
 4 concept any less abstract.” *Intellectual Ventures*, 850 F.3d at 1340; *see also Affinity*
 5 *Labs of Texas, LLC v. Direct TV, LLC*, 838 F.3d 1253, 1258–59 (Fed. Cir. 2016)
 6 (“All that limitation does is to confine the abstract idea to a particular technological
 7 environment—in this case, cellular telephones.”). Other claims of the '535 patent
 8 recite “transmitting” the data, sometimes “over the Internet”. (*See* '535 patent
 9 claims 7, 13, 17, 19–21, 23, 29.) Here too, the transmission limitations recite only
 10 conventional computer functionality and do not add any patentable subject matter.
 11 *See buySAFE, Inc. v. Google, Inc.*, 765 F.3d 1350, 1355 (Fed. Cir. 2014) (“That a
 12 computer receives and sends the information over a network—with no further
 13 specification—is not even arguably inventive.”). Still other claims of the '535
 14 patent recite decompressing the data. ('535 patent at Claims 7, 13–14, 23, 25–26.)
 15 Decompression is simply the inverse of compression. The Fallon patents do not
 16 disclose a specific technological method for either compression or decompression,
 17 but instead admit that methods for compression and decompression were “widely
 18 used” before the claimed invention. (*See* '535 patent at 1:31–32, 2:44–46.)

19 The claims of the '477 patent similarly are directed to the abstract idea of
 20 selecting a compression algorithm based on a parameter. Claim 1, which is the only
 21 claim detailed in the complaint, simply describes the same three-step process as the
 22 '535 patent: detect a parameter, select a compression algorithm (an “encoder”)
 23 based on the parameter, and compress data. The only difference is that Claim 1 of
 24 the '477 patent states that at least one of the parameters to be detected is
 25 “throughput,” which the patent specification explains is the bandwidth or rate at
 26 which the data can be transmitted. ('477 patent, 11:43–44.) As the cases cited at
 27 page 13 *supra* demonstrate, merely identifying a well-known parameter to be used
 28 in selecting from among known alternatives does not render an abstract selection

1 concept patent-eligible. *See buySAFE*, 765 F.3d at 1351 (“[N]arrowing to particular
2 types of such relationships, themselves familiar, does not change the analysis.”).

3 The other claims of the ’477 patent contain only minor variations to Claim 1,
4 and are likewise abstract. Several of the dependent claims limit the type of
5 algorithm to be used. (*See* ’477 patent claims 2, 6, 10–12, 20, 22, 26.) But neither
6 the claims nor the specification disclose any non-conventional or novel compression
7 algorithm; rather, the patent specification concedes that the algorithms recited in the
8 claims were well-known before the claimed invention. *See RecogniCorp*, 855 F.3d
9 at 1328 (invalidating claim “directed to the abstract idea of encoding and decoding,”
10 noting that “the addition of a mathematical equation that simply changes the data
11 into other forms of data cannot save it.”). Similarly, certain dependent claims
12 include limitations regarding the parameters to be considered (*e.g.*, “resolution,”
13 “format,” or “image data profile”). (*See* ’477 patent claims 3–4, 7–9, 17, 20–21,
14 23–25.) These are conventional data parameters and limiting the parameters to be
15 considered simply limits the claim to a “particular technological environment,”
16 which cannot save the claim. *Alice*, 134 S. Ct. at 2358. Like the ’535 patent, certain
17 claims of the ’477 patent specify the use of the Internet (*e.g.*, ’477 patent claims 13–
18 14, 27), recite “storing” data without specifying any method or hardware to
19 accomplish the storage (*e.g.*, ’477 patent claim 19), and describe using a generic
20 “processor” or “memory” (*e.g.*, ’477 patent claims 1, 19–20). These limitations
21 simply recite conventional computer operations that do not alter the abstraction
22 analysis. *See, e.g.*, *Ultramercial*, 772 F.3d at 716 (“[T]he use of the Internet is not
23 sufficient to save otherwise abstract claims. . . .”); *Content Extraction*, 776 F.3d at
24 1347 (“The concept of data . . . storage is undisputedly well-known.”); *Intellectual
25 Ventures*, 850 F.3d at 1341 (no inventive concept where claims recite “a generic
26 computer element—a processor”). Lastly, some of the claims require a “descriptor,”
27 which is another word for a label, to be associated with the data block to be
28

1 compressed. ('477 patent claims 15–16, 28.) The inclusion of a generic label is a
2 conventional computer operation that does not add an innovative concept.

3 The claims of the '046 patent fare no better. Claim 40, which is the only
4 claim of the '046 patent detailed in the Complaint, is also directed to the abstract
5 idea of selecting a compression algorithm and contains no additional inventive
6 concept. As with the '477 patent, the '046 patent specifies that the parameter,
7 “throughput,” be considered. But again this limitation adds no inventive spark; as
8 previously stated, merely identifying a well-known parameter to be used in selecting
9 from among known alternatives does not render an abstract selection concept patent-
10 eligible. *See* pp. 13, *supra*. The other claims of the '046 patent recite only minor
11 variations that do not change the abstract nature of the claims. As with the '477
12 patent, certain dependent claims limit the type of data to be compressed (*e.g.*, '046
13 patent claims 3–4, 6–7, 9–10, 12–13, 15–16, 20–21), whether the algorithm to be
14 used is “asymmetric” or “arithmetic” (*e.g.*, '046 patent claims 2, 5, 11, 33–36), or
15 the communication channel used (*e.g.*, '046 patent claim 30). In so doing, the
16 claims do not provide any unconventional or non-routine limitations that make the
17 invention something more than an attempt to patent the ineligible abstract idea.
18 Instead, they simply “limit the use of [the abstract idea] to a particular technological
19 environment.” *Alice*, 134 S. Ct. at 2358; *see also buySAFE*, 765 F.3d at 1354–55
20 (The claims’ “narrowing to particular types of such relationships, themselves
21 familiar, does not change the analysis.”). In the rare instances that the claims recite
22 any computer element at all, they include only generic, functional hardware (*e.g.*,
23 “data processing system,” “storage device,” and “controller”). These “well-
24 understood, routine, conventional” elements are insufficient to transform the
25 abstract idea into a patent-eligible invention. *Mayo*, 566 U.S. at 79–80.

26 In sum, the claim limitations of each of the Fallon patents are directed to
27 routine data manipulation using conventional compression techniques, and fail to
28 add any inventive concept. The claims are drawn to a functional result—choosing a

1 compression algorithm based on a parameter—not to a particular technological
 2 solution. “The purely functional nature of [each] claim confirms that it is directed to
 3 an abstract idea, not to a concrete embodiment of that idea.” *Affinity Labs*, 838 F.3d
 4 at 1269; *see also Elec. Power Grp.*, 830 F.3d at 1356 (This “essentially result-focused,
 5 functional character of claim language [is] a frequent feature of claims held ineligible.”).
 6 As such, each of the Fallon patents is invalid as claiming only an abstract idea.

7 **B. The '462 Patent Was Surrendered Before This Case Was Filed and**
 8 **Therefore Cannot Be the Subject of an Infringement Suit.**

9 One of the patents asserted in the Complaint—the '462 patent—was
 10 surrendered by Realtime before filing the Complaint. When the parties met and
 11 conferred on this issue, Realtime’s counsel did not dispute that Realtime had no
 12 basis for asserting the '462 patent against Defendants Google LLC and YouTube,
 13 LLC (collectively “Google”). Realtime nonetheless refused to amend its complaint
 14 to remove the baseless allegations because it did not want to amend its complaint on
 15 multiple occasions, insisting instead that Google file a motion to dismiss.⁷

16 Realtime filed the Complaint in this action on April 30, 2018. (ECF No. 1.)
 17 On April 3, 2018, more than three weeks before the Complaint was filed, the U.S.
 18 Patent and Trademark Office reissued the '462 patent at Realtime’s request as U.S.
 19 Patent No. RE46,777. (*See Request for Judicial Notice (“RJN”), Ex. A at 1.*)
 20 Realtime requested that the '462 patent be reissued to correct an error in the '462
 21 patent that, by Realtime’s own admission, made “the original patent . . . wholly or
 22 partly inoperative or invalid.” (RJN, Ex. B at 1.) Nonetheless, after the patent

23
 24
 25 ⁷ Although Google does not seek sanctions at this time, it notes that Realtime’s
 26 continued assertion of an admittedly baseless claim violates Fed. R. Civ. P. 11(b)(2),
 27 which prohibits the continued assertion of “claims” that are not “warranted by
 28 existing law or by a nonfrivolous argument for extending, modifying, or reversing
 existing law or for establishing new law.”

1 reissued, Realtime asserted the previously surrendered, admittedly inoperative '462
2 patent against Google. (*See* ECF No. 1 at ¶¶ 71–94.)

3 The Patent Act specifies that the reissuance of a patent results in the
4 automatic “surrender” of the original patent: “The surrender of the original patent
5 shall take effect upon the issue of the reissued patent. . . .” 35 U.S.C. § 252; *see also*
6 35 U.S.C. § 251 (permitting reissue only upon “the surrender of such [original]
7 patent.”). This has been the law for more than a century. *See Peck v. Collins*, 103
8 U.S. 660, 664 (1880) (“[I]t has been uniformly held that if a reissue is granted, the
9 patentee has no rights except such as grow of the reissued patent. He has none
10 under the original.”). Realtime does not dispute that the '462 patent was
11 surrendered on April 3, 2018, when the reissued patent issued, and that it no longer
12 had any rights in the '462 patent at the time that it filed this lawsuit. The Court
13 should dismiss with prejudice Realtime’s claim for infringement of the '462 patent.

14 **V. CONCLUSION**

15 The claims of the Fallon patents do not include any inventive concept
16 “sufficient to ensure that the patent[s] in practice amount[] to significantly more
17 than a patent upon the [abstract idea] itself.” *Alice*, 134 S. Ct. at 2355 (internal
18 quotation marks omitted). The claims of the Fallon patents also offer no specific
19 technological solution “sufficient to transform the claimed abstract idea into a
20 patent-eligible invention.” *Id.* at 2347 (internal quotation marks omitted). Because
21 the claims of the Fallon patents are patent-ineligible under § 101, Google
22 respectfully requests that the Court dismiss with prejudice Counts I, II, and III of
23 Realtime’s Complaint, which pertain to the Fallon patents. Google also respectfully
24 requests that the Court dismiss with prejudice Count IV of the Complaint, which
25 pertains to the '462 patent that was surrendered by Realtime.

26

27

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1 DATED: July 16, 2018

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2 GREGORY P. STONE
3 TED DANE
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9 YouTube, LLC

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CERTIFICATE OF SERVICE

I certify that I caused the attached document to be filed using the Court's CM/ECF system and thereby served on counsel of record. I further certify that I have obtained the concurrence in the filing of this document by the above signatory.

DATED: July 16, 2018

/s/ Zachary M. Briers

Zachary M. Briers